Title (en)

METHODS FOR IDENTIFYING CLASS 2 CRISPR-CAS SYSTEMS

Title (de)

VERFAHREN ZUR IDENTIFIZIERUNG VON KLASSE-2-CRISPR-CAS-SYSTEMEN

Title (fr)

MÉTHODES D'IDENTIFICATION DE SYSTÈMES CRISPR-CAS DE CLASSE 2

Publication

EP 3500967 A1 20190626 (EN)

Application

EP 17764475 A 20170816

Priority

• US 201662376387 P 20160817
• US 2017047193 W 20170816

Abstract (en)

[origin: WO2018035250A1] Disclosed here is a method of identifying novel CRISPR effectors, comprising: identifying sequences in a genomic or metagenomic database encoding a CRISPR array; identifying one or more Open Reading Frames (ORFs) in said selected sequences within 10 kb of the CRISPR array; discarding all loci encoding proteins which are assigned to known CRISPR-Cas subtypes and, optionally, all loci encoding a protein of less than 700 amino acids; and identifying putative novel CRISPR effectors, and optionally classifying them based on structure analysis.

IPC 8 full level

C07K 14/195 (2006.01); **C12N 9/00** (2006.01)

CPC (source: EP US)

C07K 14/195 (2013.01 - EP); **C12N 9/00** (2013.01 - EP); **C12N 9/22** (2013.01 - EP US); **C12N 15/11** (2013.01 - US); **C12N 15/113** (2013.01 - EP); **G16B 20/20** (2019.01 - US); **G16B 30/10** (2019.01 - EP US); **G16B 40/30** (2019.01 - US); C12N 2310/20 (2017.04 - EP US); C12N 2800/80 (2013.01 - US); G16B 15/00 (2019.01 - EP); G16B 20/20 (2019.01 - EP); G16B 40/30 (2019.01 - EP)

Citation (search report)

See references of WO 2018035250A1

Cited by

US11174470B2; US11273442B1; US11761029B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2018035250 A1 20180222; EP 3500967 A1 20190626; US 2021166783 A1 20210603

DOCDB simple family (application)

US 2017047193 W 20170816; EP 17764475 A 20170816; US 201716326132 A 20170816